

Product: EXCAVATOR

Model: 320E L EXCAVATOR LAK

Configuration: 320E & 320E L Excavators LAK00001-UP (MACHINE) POWERED BY C6.6 Engine

## **Disassembly and Assembly C6.6 Engines for Caterpillar Built Machines**

Media Number -KENR9249-07

Publication Date -01/09/2015

Date Updated -19/06/2017

i04048584

# **Front Cover - Remove and Install**

SMCS - 1166-010

## **Removal Procedure**

### **Start By:**

- a. Remove the crankshaft pulley. Refer to Disassembly and Assembly, "Vibration Damper and Pulley - Remove" for the correct procedure.
  - b. If the engine is equipped with a fan, remove the fan. Refer to Disassembly and Assembly, "Fan - Remove and Install" for the correct procedure.
  1. Remove the front seal from the front cover. Refer to Disassembly and Assembly, "Crankshaft Front Seal - Remove and Install" for the correct procedure.
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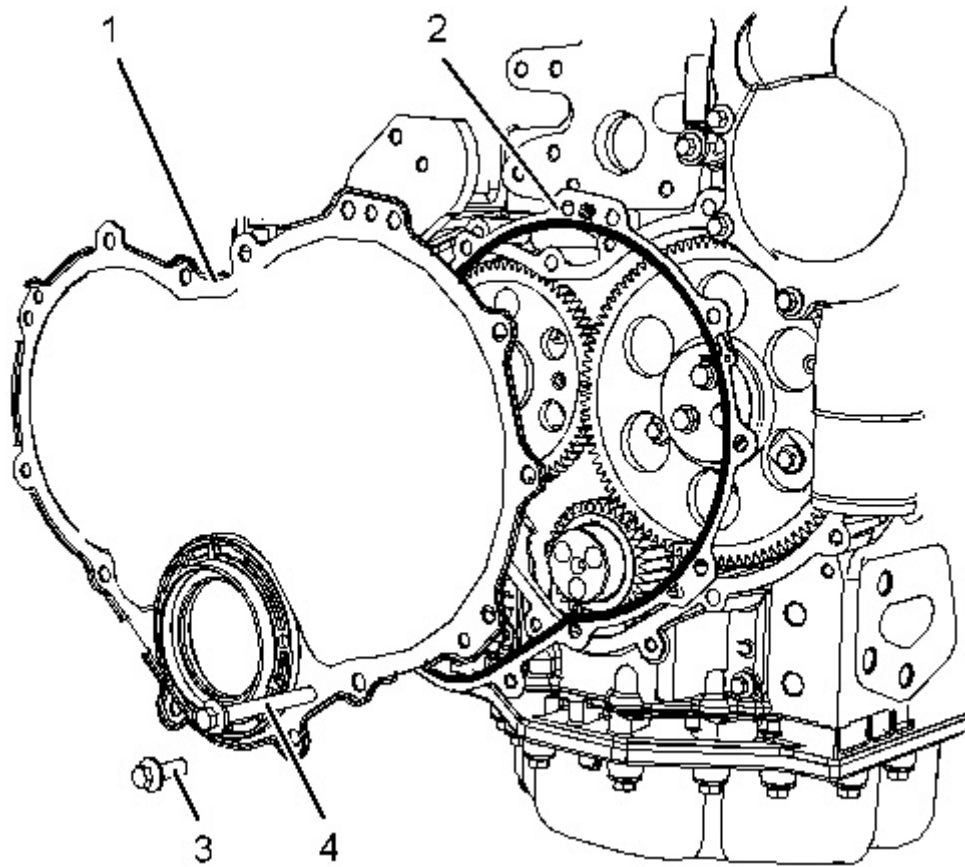


Illustration 1

g01992013

2. Remove bolts (3) and bolts (4). Identify the positions of bolts of different length.
3. Remove front cover (1) from the front housing.
4. Remove gasket (2) from front cover (1).

## Installation Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	-	Guide Stud M8 by 70 mm	2
B	367-3535	Front Cover Alignment Tool	1

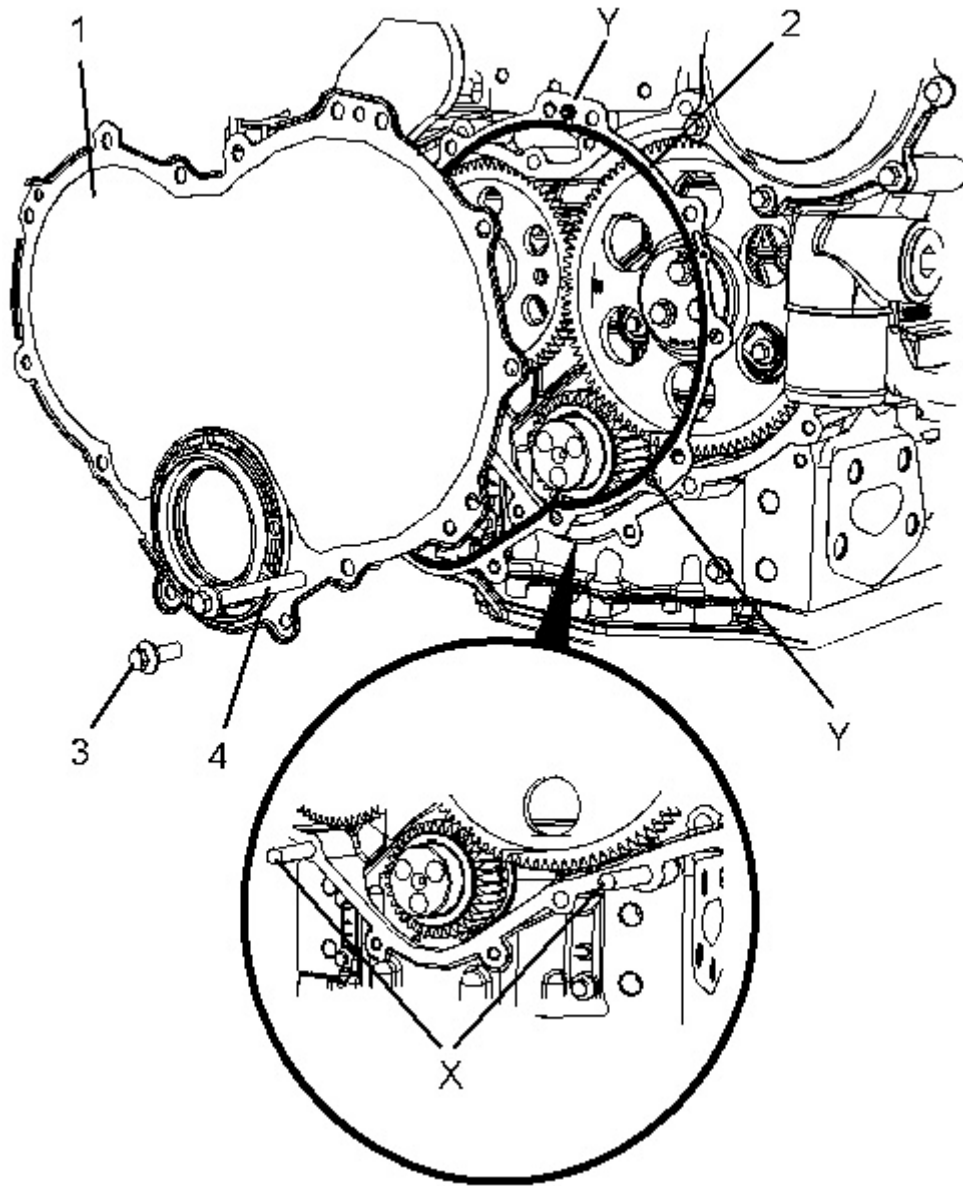


Illustration 2

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1. Thoroughly clean the gasket surface of the front housing.
2. If the original front cover is installed, follow Step 2.a through Step 2.b.
  - a. Thoroughly clean front cover (1).
  - b. Install a new gasket (2) to front cover (1). Engage Locators (Y) into the holes in the front cover.
3. Install Tooling (A) into Holes (X) in the front housing.
4. Use Tooling (A) in order to position the front cover assembly onto the front housing.
5. Install bolts (3) and bolts (4) finger tight. Ensure that the bolts of different length are installed in the correct positions.

6. Install a new front seal to the front cover. Refer to Disassembly and Assembly, "Crankshaft Front Seal - Remove and Install" for the correct procedure.
7. Use Tooling (B) in order to align the front cover.
8. Remove Tooling (A) and install remaining bolts (4).
9. Tighten bolts (3) and bolts (4) to a torque of 22 N·m (195 lb in).
10. Remove Tooling (B) from the front cover.

**End By:**

- a. Install the crankshaft pulley. Refer to Disassembly and Assembly, "Vibration Damper and Pulley - Install" for the correct procedure.
  - b. If the engine was equipped with a fan, install the fan. Refer to Disassembly and Assembly, "Fan - Remove and Install" for the correct procedure.
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Media Number -KENR9249-07

Publication Date -01/09/2015

Date Updated -19/06/2017

i04048585

# **Front Cover - Remove and Install - Heavy Duty Front Cover**

SMCS - 1166-010

## **Removal Procedure**

### **Start By:**

- a. Remove the crankshaft pulley. Refer to Disassembly and Assembly, "Vibration Damper and Pulley - Remove" for the correct procedure.
  - b. If the engine is equipped with a fan, remove the fan. Refer to Disassembly and Assembly, "Fan - Remove and Install" for the correct procedure.
  - c. Remove the front seal. Refer to Disassembly and Assembly, "Crankshaft Front Seal - Remove and Install" for the correct procedure.
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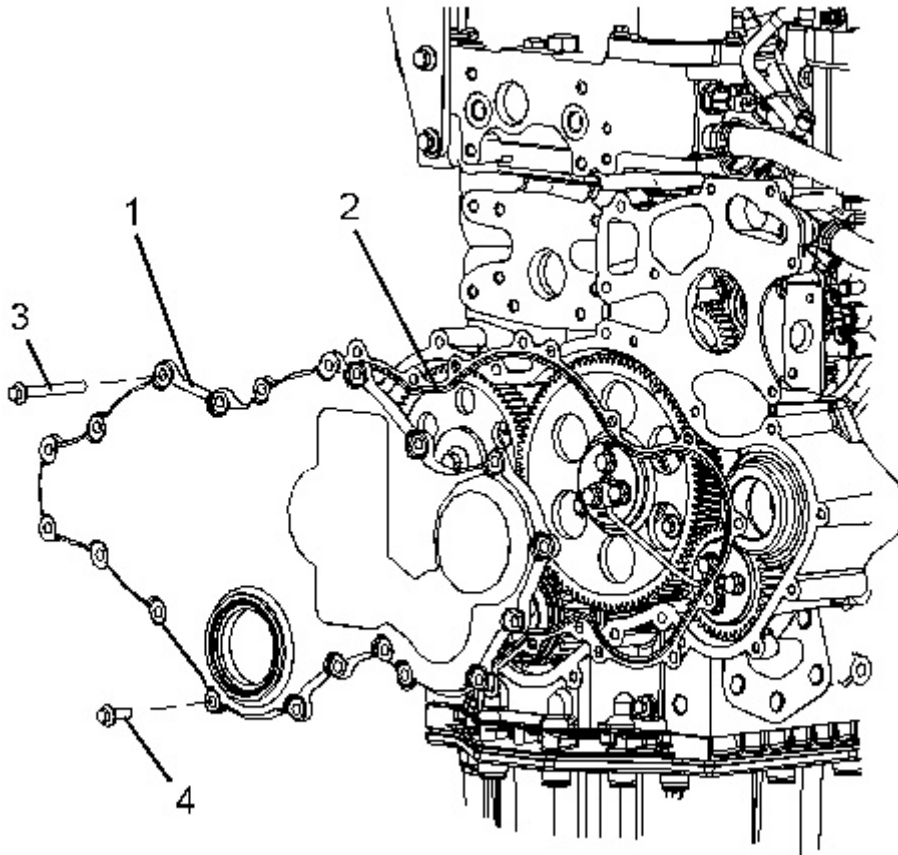


Illustration 1

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1. Remove bolts (3) and bolts (4). Identify the positions of bolts of different length.
2. Remove front cover (1) from the front housing.
3. Remove gasket (2) from front cover (1).

## Installation Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	-	Guide Stud M8 by 70 mm	2
B	364-7210	Front Cover Alignment Tool	1

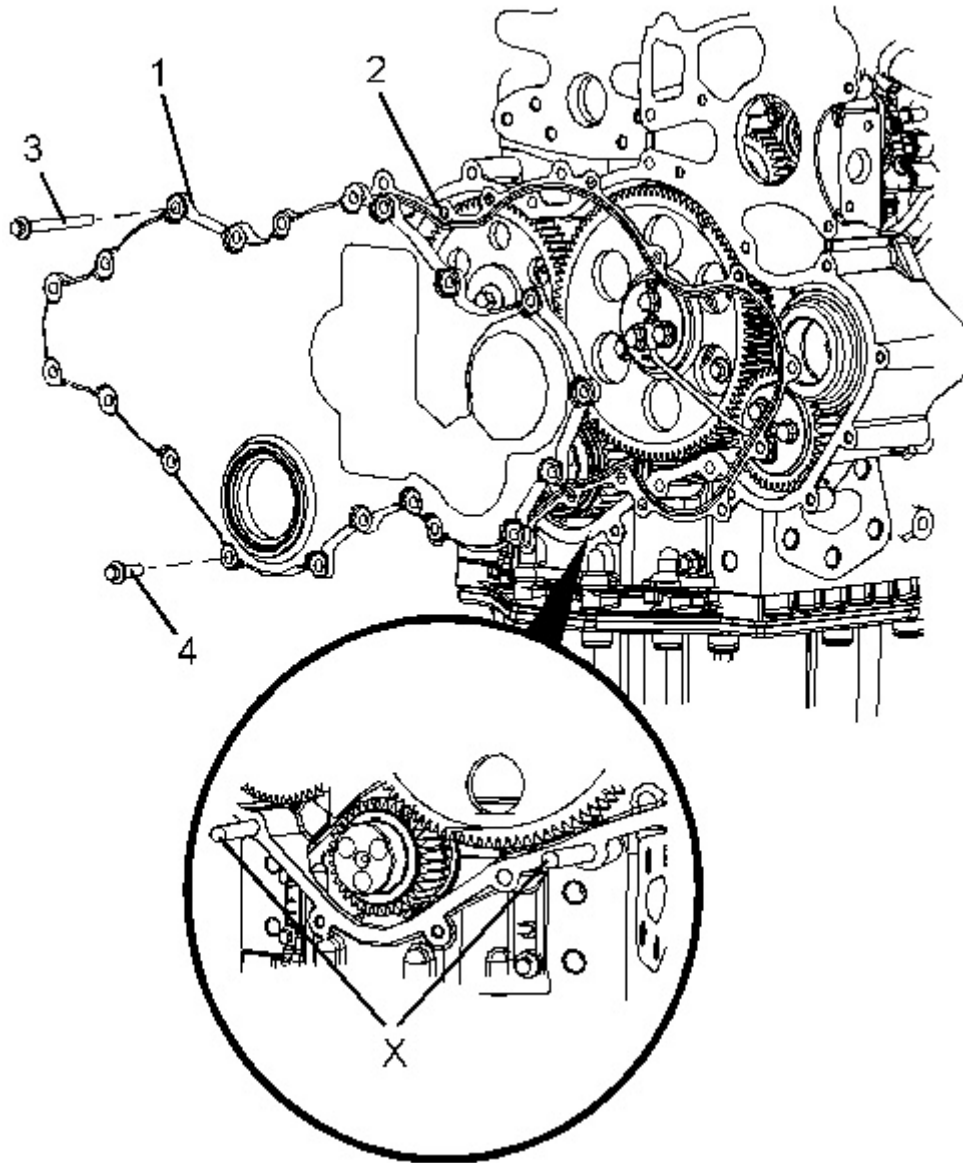


Illustration 2

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1. Ensure that all components are clean and free from damage. Replace any damaged components.
2. Thoroughly clean the gasket surface of the front housing.
3. Thoroughly clean front cover (1).
4. Install Tooling (A) into Holes (X) in the front housing.
5. Install a new gasket (2) onto Tooling (A).
6. Install front cover (1) onto Tooling (A).
7. Install bolts (3) and bolts (4) finger tight. Ensure that the bolts of different length are installed in the correct positions.
8. Use Tooling (B) to align the front cover assembly.

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